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**REPORT ON ENC DEVELOPMENT (BRAZIL)**

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**1. Number of S-57 Edition 3 ENC's (listed by usage bands):**

| Usage Band      | ENC Cell produced | % Total ENC Coverage | Equivalent Paper Charts | ENC in one year ahead | ENC on the market (with updating service) |
|-----------------|-------------------|----------------------|-------------------------|-----------------------|---|
| <b>Berthing</b> |                   |                      |                         |                       |   |
| <b>Harbour</b>  | 10                | 37                   | 27                      | 03                    | 00  |
| <b>Approach</b> | 01                | 2                    | 34                      | 06                    | 00  |
| <b>Coastal</b>  | 00                | 00                   | 19                      | 00                    | 00  |
| <b>General</b>  | 00                | 00                   | 23                      | 00                    | 00  |

**2. Software tools utilized for ENC production and Quality Control**

**ENC production tools (capable of S-57 Exchange Set publishing)**

CARIS HOM & GIS 3 workstation

**ENC Quality Control tools**

ENC Inspector. Analyzer & Simulator, SEVEN Cs. 1 workstation

**ENC Maintenance tools (capable of S-57 Updating profile generation)**

None.

Comments: Still need to acquire toolkits for Quality Control.

**3. Capability and training level of hydrographers / cartographers or other HO personnel**

| Current level of Expertise | Knowledge of paper chart production | Experience in paper chart production | Knowledge of ENC production | Experience in ENC production |
|----------------------------|-------------------------------------|--------------------------------------|-----------------------------|------------------------------|
| <b>HIGH</b>                | 16                                  | 13                                   | 04                          | 02                           |
| <b>MEDIUM</b>              | 12                                  | 11                                   | 02                          | 02                           |
| <b>LOW</b>                 | 00                                  | 06                                   | 00                          | 02                           |